

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/981,506	10/17/2001	Gregory R. Chiklis	19383-014	6911
7590 10/20/2005			EXAMINER	
Ranjana Kadle			WANG, LOUISE Z	
Hodgson Russ 1	LLP			
One M & T Plaza		ART UNIT	PAPER NUMBER	
Suite 2000			1648	
Buffalo, NY	14203-2391		DATE MAILED: 10/20/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>r.</u> /		Application No.	Applicant(s)			
Office Action Summary		09/981,506	CHIKLIS ET AL.			
		Examiner	Art Unit			
		Louise Wang	1648			
	- The MAILING DATE of this communication ap		orrespondence address			
Period fo	, •					
WHIC - Exter after: - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOR REPI HEVER IS LONGER, FROM THE MAILING I sions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period e to reply within the set or extended period for reply will, by statu- eply received by the Office later than three months after the mailed d patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tim d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on					
	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	on of Claims					
4)🖂	4)⊠ Claim(s) <u>2-63,65,66,68 and 69</u> is/are pending in the application.					
•	4a) Of the above claim(s) <u>5-11,16-48,53-59,62,63,65,66,68 and 69</u> is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
	6) Claim(s) <u>2-4,12-15,49-52,60 and 61</u> is/are rejected.					
	7) Claim(s) is/are objected to.					
8)[_	Claim(s) are subject to restriction and/	or election requirement.				
Applicati	on Papers					
9) 🔲 .	The specification is objected to by the Examir	ner.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	· · · · · · · · · · · · · · · · · · ·				
Priority u	nder 35 U.S.C. § 119	•				
_	Acknowledgment is made of a claim for foreig ☐ All b)	n priority under 35 U.S.C. § 119(a))-(d) or (f).			
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
~ 3	ee the attached detailed Office action for a lis	st of the certified copies not receive	·a.			
Attachment		_				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Inform	e of Dransperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0) r No(s)/Mail Date		Patent Application (PTO-152)			

Application/Control Number: 09/981,506 Page 2

Art Unit: 1648

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group I, claims 2-9, 12-17, 49-57, and 60-63, in the reply filed on 29 August 2005 is acknowledged. The traversal is on the ground that the Groups I, III, and V are not distinct from each other. This is not found persuasive because Groups I, III, and V are related to as product, process of making and process of use, which are distinct because Group I can be used for a materially different process such as therapeutics to treat diseases. This has been known in the art, see Balachandran *et al.* (IUBMB Life, 2000). Therefore, the restriction among Groups I, III, and V is maintained.

The requirement is still deemed proper and is therefore made FINAL.

Status of the Claims

Claims 5-11, 16-48, 53-59, 62, 63, 65, 66, 68, and 69 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention or species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 29 August 2005.

Claims 2-4, 12-15, 49-52, 60, and 61 are pending and examined.

The claims are read to the extent of the elected species, i.e., formaldehyde and HIV.

Information Disclosure Statement

Application/Control Number: 09/981,506

Art Unit: 1648

The information disclosure statement (IDS) submitted on 15 July 2002 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2, 3, 12-14, 49-51, and 60 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The instant claims are directed to a purified microorganism comprising surface proteins and substantially intact nuclear components, wherein one or more surface proteins have been irreversibly modified by covalent attachment of formaldehyde to render the microorganism nonpathogenic; a composition comprising the microorganism; and a kit comprising the composition. The phrases "microorganism" and "a compound" in claim 2 encompass an unlimited number of species known in the art. The limitation "surface proteins" is not defined by any names or structures and hence the scope of the claims extends unlimitedly to any protein that comes into contact with formaldehyde. Since no conditions of "covalent attachment" are included in the claims, they are

Application/Control Number: 09/981,506 Page 4

Art Unit: 1648

understood as extending to any known prior art HIV cell or tissue fixative solution containing formaldehyde. The limitations "the compound" comprising "a single reactive functional group" in claims 3 and 51 as well as "liquid matrix... suitable for lyophilization" in claims 12 and 13 extend to any organic compound or formulation known in the prior art such as Bouin's solution or formalin. The phrase "virus" in claims 14 and 60 does not require that the virus possess any particular biological activity or other distinguishing feature. Thus, claims 14 and 60 are drawn to all viruses known to one skilled in the art.

In order to provide evidence of possession of a claimed genus, the specification must provide sufficient distinguishing identifying characteristics of the genus. In this case, there is not even identification of any particular surface protein, virus and compound. The specification only provides the example of HIV soaked in formaldehyde and assay for p24. Accordingly, in the absence of sufficient recitation of distinguishing identifying characteristics, the specification does not provide adequate written description of the claimed genus.

Therefore, Claims 2, 3, 12-14, 49-51, and 60 do not meet the written description provision of 35 U.S.C. §112, first paragraph.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 09/981,506

Art Unit: 1648

Claims 2-4, 12-15, 49-52, and 60-61 are rejected under 35 U.S.C. 102(b) as being anticipated by Davison *et al.* (1996). These claims are drawn to a purified nonpathogenic HIV comprising surface proteins irreversibly modified by covalent attachment of formaldehyde and substantially intact nuclear components; a composition comprising the HIV and a liquid matrix; and a kit comprising the composition.

Davison *et al.* teaches the claimed noninfectious HIV, with quantifiable DNA for PCR, in brain tissue fixed with formalin, a formaldehyde solution (see entire document).

Thus, claims 2-4, 12-15, 49-52, and 60-61 are anticipated by Davison *et al.*

Conclusion

No claims are allowed.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louise Wang whose telephone number is 571-272-5543. The examiner can normally be reached on Mon-Fri, 9am-5pm.

Application/Control Number: 09/981,506 Page 6

Art Unit: 1648

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Louise Wang, Ph.D. Patent Examiner 12 October 2005

JEFPREY STUCKER PRIMARY EXAMINER